

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062519\  
 Data File : BM021188.D  
 Acq On : 26 Jun 2019 12:51  
 Operator : HP/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02044

Manual Integrations  
 APPROVED

mohammad  
 6/27/2019 8:17:40 AM

Quant Time: Jun 26 13:52:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 26 01:32:57 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 267726   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.55 | 136  | 1199407  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.40 | 164  | 816716   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.16 | 188  | 2030610  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.34 | 240  | 1952007  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.62 | 264  | 1757836  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 37588   | 6.67  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.93  | 99  | 448881  | 19.26 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 266539  | 19.20 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 368554  | 19.46 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.47  | 113 | 385751  | 19.83 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.93  | 128 | 194846  | 20.01 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 224190  | 20.74 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 465182  | 21.16 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.70 | 131 | 430548  | 18.78 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.82 | 166 | 1456293 | 19.73 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.10 | 160 | 1782283 | 19.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.62 | 143 | 231310  | 19.27 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.40 | 176 | 1290568 | 20.11 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 235674  | 18.88 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 2063860 | 19.56 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.55 | 212 | 2299081 | 19.63 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.47 | 264 | 2046516 | 19.73 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.32  | 88  | 38456   | 6.740  | ng/uL 94  |
| 4) Benzaldehyde                | 6.92  | 77  | 156126  | 14.696 | ng/ul 99  |
| 6) Phenol                      | 6.96  | 94  | 426435  | 19.347 | ng/ul 99  |
| 8) Bis(2-Chloroethyl)ether     | 7.20  | 93  | 320403  | 19.046 | ng/ul 99  |
| 10) 2-Chlorophenol             | 7.33  | 128 | 348665  | 19.540 | ng/ul 98  |
| 11) 2-Methylphenol             | 8.20  | 108 | 337177  | 19.771 | ng/ul 97  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.30  | 45  | 404122  | 18.813 | ng/ul 100 |
| 14) Acetophenone               | 8.59  | 105 | 564697  | 20.171 | ng/ul 97  |
| 15) N-Nitroso-di-n-propylamine | 8.57  | 70  | 290659  | 19.948 | ng/ul 98  |
| 16) 4-Methylphenol             | 8.53  | 108 | 369232  | 19.895 | ng/ul 97  |
| 17) Hexachloroethane           | 8.83  | 117 | 140765  | 18.926 | ng/ul 93  |
| 20) Nitrobenzene               | 8.97  | 77  | 422421  | 19.307 | ng/ul 99  |
| 21) Isophorone                 | 9.49  | 82  | 812204  | 19.712 | ng/ul 99  |
| 23) 2-Nitrophenol              | 9.67  | 139 | 219537  | 20.195 | ng/ul 96  |
| 24) 2,4-Dimethylphenol         | 9.73  | 107 | 439543  | 19.792 | ng/ul 99  |
| 25) Bis(2-Chloroethoxy)methane | 9.97  | 93  | 489511  | 19.278 | ng/ul 100 |
| 27) 2,4-Dichlorophenol         | 10.20 | 162 | 414797  | 20.727 | ng/ul 97  |
| 28) Naphthalene                | 10.60 | 128 | 1195602 | 19.415 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.72 | 127 | 409530  | 18.991 | ng/ul 100 |
| 31) Hexachlorobutadiene        | 10.87 | 225 | 270642  | 19.848 | ng/ul 98  |
| 32) Caprolactam                | 11.52 | 113 | 121211m | 21.545 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.85 | 107 | 430992  | 21.124 | ng/ul 98  |
| 34) 2-Methylnaphthalene        | 12.22 | 142 | 946119  | 20.038 | ng/ul 98  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.59 | 216  | 566203   | 19.419 | ng/ul | 98       |
| 37) Hexachlorocyclopentadiene  | 12.56 | 237  | 334035   | 19.258 | ng/ul | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.83 | 196  | 374627   | 20.676 | ng/ul | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.90 | 196  | 405378   | 20.945 | ng/ul | 99       |
| 40) 1,1'-Biphenyl              | 13.23 | 154  | 1274337  | 18.915 | ng/ul | 99       |
| 41) 2-Chloronaphthalene        | 13.28 | 162  | 1029758  | 19.346 | ng/ul | 99       |
| 42) 2-Nitroaniline             | 13.50 | 65   | 263880   | 20.399 | ng/ul | 97       |
| 44) Dimethylphthalate          | 13.87 | 163  | 1324877  | 19.722 | ng/ul | 99       |
| 45) 2,6-Dinitrotoluene         | 13.99 | 165  | 268060   | 20.907 | ng/ul | 99       |
| 47) Acenaphthylene             | 14.13 | 152  | 1519891  | 19.651 | ng/ul | 99       |
| 48) 3-Nitroaniline             | 14.33 | 138  | 242662   | 21.620 | ng/ul | 96       |
| 49) Acenaphthene               | 14.47 | 153  | 1103749  | 19.466 | ng/ul | 99       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 130038   | 20.189 | ng/ul | 88       |
| 52) 4-Nitrophenol              | 14.63 | 109  | 168343   | 18.960 | ng/ul | 99       |
| 53) Dibenzofuran               | 14.81 | 168  | 1601702  | 19.839 | ng/ul | 97       |
| 54) 2,4-Dinitrotoluene         | 14.79 | 165  | 407577   | 21.906 | ng/ul | 99       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.03 | 232  | 374603   | 22.196 | ng/ul | 98       |
| 56) Diethylphthalate           | 15.23 | 149  | 1307063  | 20.167 | ng/ul | 99       |
| 58) Fluorene                   | 15.46 | 166  | 1332077  | 20.308 | ng/ul | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.45 | 204  | 732297   | 20.476 | ng/ul | 99       |
| 60) 4-Nitroaniline             | 15.49 | 138  | 238925   | 20.026 | ng/ul | 99       |
| 63) 4,6-Dinitro-2-methylphenol | 15.54 | 198  | 235249   | 18.774 | ng/ul | 98       |
| 64) N-Nitrosodiphenylamine     | 15.67 | 169  | 1153430  | 18.755 | ng/ul | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.34 | 248  | 482904   | 19.393 | ng/ul | 99       |
| 66) Hexachlorobenzene          | 16.46 | 284  | 561507   | 19.675 | ng/ul | 97       |
| 67) Atrazine                   | 16.63 | 200  | 433169   | 19.415 | ng/ul | 97       |
| 68) Pentachlorophenol          | 16.80 | 266  | 309830   | 21.651 | ng/ul | 98       |
| 69) Phenanthrene               | 17.20 | 178  | 2195136  | 19.547 | ng/ul | 99       |
| 71) Anthracene                 | 17.29 | 178  | 2238130  | 19.557 | ng/ul | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.20 | 216  | 570759   | 17.868 | ng/uL | 99       |
| 73) Pentachlorobenzene         | 14.72 | 250  | 610146   | 18.562 | ng/uL | 99       |
| 74) Carbazole                  | 17.56 | 167  | 1901920  | 20.165 | ng/ul | 100      |
| 75) Di-n-butylphthalate        | 18.12 | 149  | 2315599  | 20.449 | ng/ul | 100      |
| 76) Fluoranthene               | 19.22 | 202  | 2657798  | 21.903 | ng/ul | 99       |
| 79) Pvrene                     | 19.58 | 202  | 2689638  | 19.490 | ng/ul | 99       |
| 80) Butylbenzylphthalate       | 20.48 | 149  | 1077237  | 21.088 | ng/ul | 95       |
| 81) 3,3'-Dichlorobenzidine     | 21.26 | 252  | 809754   | 18.508 | ng/ul | 98       |
| 82) Benzo(a)anthracene         | 21.33 | 228  | 2575964  | 19.357 | ng/ul | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 21.25 | 149  | 1590734  | 21.871 | ng/ul | 99       |
| 84) Chrysene                   | 21.38 | 228  | 2395807  | 19.222 | ng/ul | 100      |
| 86) Di-n-octyl phthalate       | 22.14 | 149  | 2550577  | 25.181 | ng/ul | 100      |
| 87) Benzo(b)fluoranthene       | 22.93 | 252  | 2266817  | 20.358 | ng/ul | 100      |
| 88) Benzo(k)fluoranthene       | 22.97 | 252  | 2150395  | 20.074 | ng/ul | 99       |
| 90) Benzo(a)pyrene             | 23.52 | 252  | 2046784  | 19.529 | ng/ul | 99       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.90 | 276  | 2270978  | 18.401 | ng/ul | 98       |
| 92) Dibenzo(a,h)anthracene     | 25.91 | 278  | 1920947  | 18.503 | ng/ul | 99       |
| 93) Benzo(g,h,i)perylene       | 26.61 | 276  | 1842678  | 18.129 | ng/ul | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

